
Subject: Re: Dataminer: faster way to get all records in a IDLdbRecordset table?

Posted by Olaf Stetzer on Thu, 18 Sep 2003 07:21:19 GMT

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Tim Williams schrieb:

> I want to put the records in a database table into an IDL table
> widget. For fairly large tables, (> ~1500 rows), it's fairly slow and
> I get "Not responding" in the Task Manager for awhile while I'm
> getting each record. Here's what I'm doing now:
>
> ors=obj_new('IDLdbRecordset', table=tablename)
> status=ors->moveCursor(/first)
> if status eq 1 then begin
> rec=ors->getRecord()
> status=ors->moveCursor(/next)
> while (status eq 1) do begin
> rec=[rec, ors->getRecord()]
> status=ors->moveCursor(/next)
> end while
> endif
>
> Is there a faster way to get all of the records?

I am not sure if it is faster but you can try my function
sql_return_array appended to this email! There is even a
minimum of error handling in it.

Olaf

```
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;
; Email bug reports to olaf.stetzer@imk.fzk.de
;
;
; NAME:
; sql_return_array
;
; PURPOSE:
; This function returns a struct which contains the result of an
```

```
; SQL-query.  
;  
;  
;CATEGORY:  
; SQL-DATABASE  
;  
;CALLING SEQUENCE:  
; Result= sql_return_array(objectDB, sqlstr)  
;  
;INPUTS:  
; objectDB: a database Object for the DB which holds the table with  
the desired data  
; sqlstr: a complete SQL query string  
;  
;KEYWORD PARAMETERS:  
;  
; group If keyword is set, skip the counting of resulting records. Some  
; queries (like SHOW... and grouping queries) don't work  
otherwise.  
;  
;  
;  
;OUTPUTS:  
; result: array of a struct which contains the data for the desired  
fields. The fields  
; within the structure have the same names as defined by the variable fields.  
; These can be substructures depending on the fieldtype in the DB (for  
example  
; a datetime-field will be returned as a (sub)structure  
ODBC_SQL_TIMESTAMP).  
;  
;  
;  
;EXAMPLE:  
;  
;  
;  
;NOTES:  
;  
; If you have fields in your DB which are not valid as variable name in  
IDL then  
; use the AS alias function in the SQL Query to avoid error messages.  
See the  
; construction of count(*) As COUNT in the test query below.  
;  
;  
;  
;REVISION HISTORY:  
; Written Olaf Stetzer, March 2002  
;  
; 21.03.2002 Added test for empty result, now returns 0 if no records  
are obtained.
```

```
; Simplified the construction of the resulting array by using count now!
;
; 08.07.2002 Record loop integer n changed to long integer type to
read longer record
;      sets (Martin Schnaiter)
;
; 28.11.2002 Added reform() to the result to avoid doing it in all
calling programs.
;   Added group keyword to reunify the two previous functions.
;-
```

```
function sql_return_array, oDB, sqlstr, group=group
```

```
; Test if Query returns any records and get the number of records (count):
```

```
if not keyword_set(group) then begin
```

```
teststr='SELECT count(*) AS COUNT ' +
strmid(sqlstr,strpos(strupcase(sqlstr),' FROM '))
```

```
oRS = obj_new('IDLDBRecordset',oDB ,SQL=teststr)
```

```
status = oRS->MoveCursor(/FIRST)
```

```
record = oRS->GetRecord()
```

```
obj_destroy, oRS
```

```
count=record.count
```

```
if count eq 0 then begin
```

```
print, 'Query returns no records: ', sqlstr
```

```
return, 0
```

```
endif
```

```
; Create the recordset-object:
```

```
oRS = obj_new('IDLDBRecordset',oDB ,SQL=sqlstr)
```

```
endif else begin
```

```
oRS = obj_new('IDLDBRecordset',oDB ,SQL=sqlstr)
```

```
; Count records "manually":
```

```
status = oRS->MoveCursor(/FIRST)
```

```
count=1
```

```
last=0
while last eq 0 do begin
  if (oRS->MoveCursor(/NEXT) eq 1) then count=count+1 else last=1
endwhile

endelse

; Construct a well-dimensioned array for the result:

status = oRS->MoveCursor(/FIRST)
record = oRS->GetRecord()
record=replicate(record,count)

; Fill the array with the records:

for n=0,count-1 do begin
  record[n]=oRS->GetRecord()
  status = oRS->MoveCursor(/NEXT)
endfor

obj_destroy, oRS

return, reform(record)
end
```
